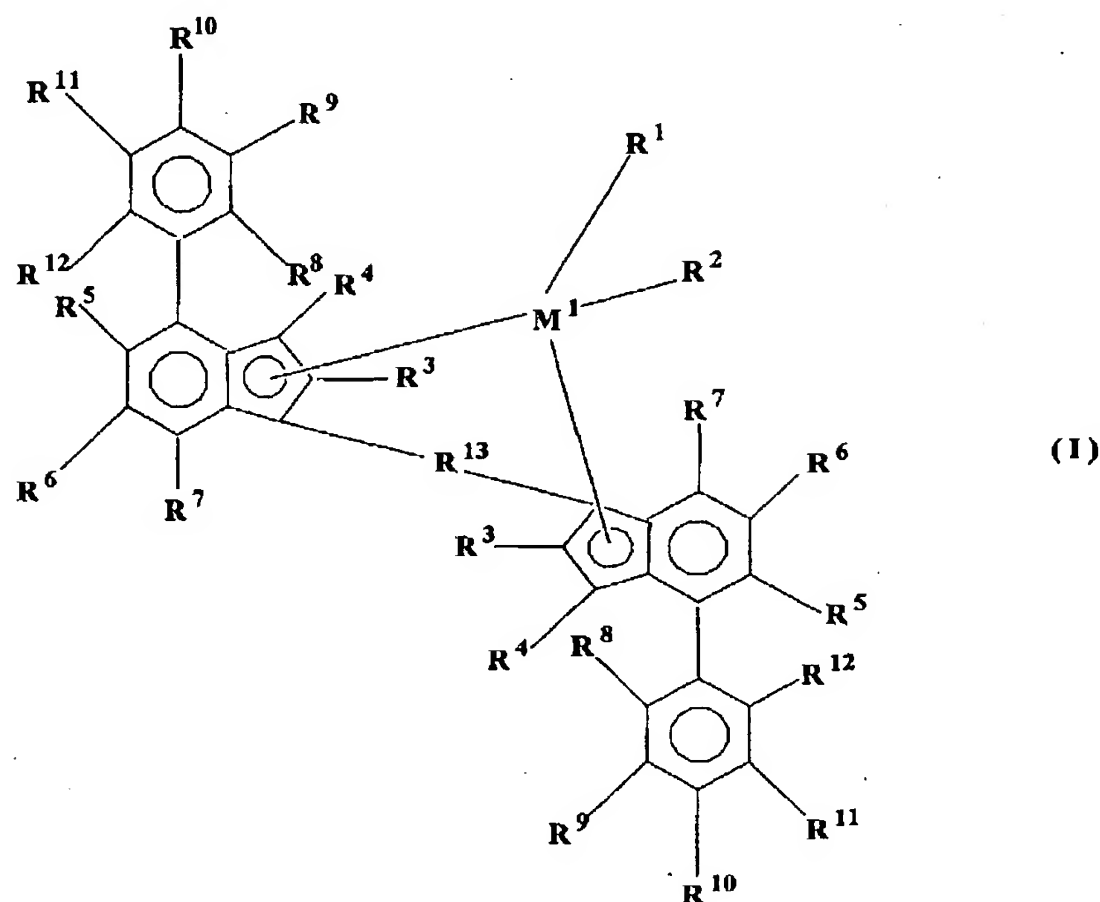


IN THE CLAIMS

1. (Amended) A compound represented by the formula:



wherein: M^1 is selected from the group consisting of titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum and tungsten;

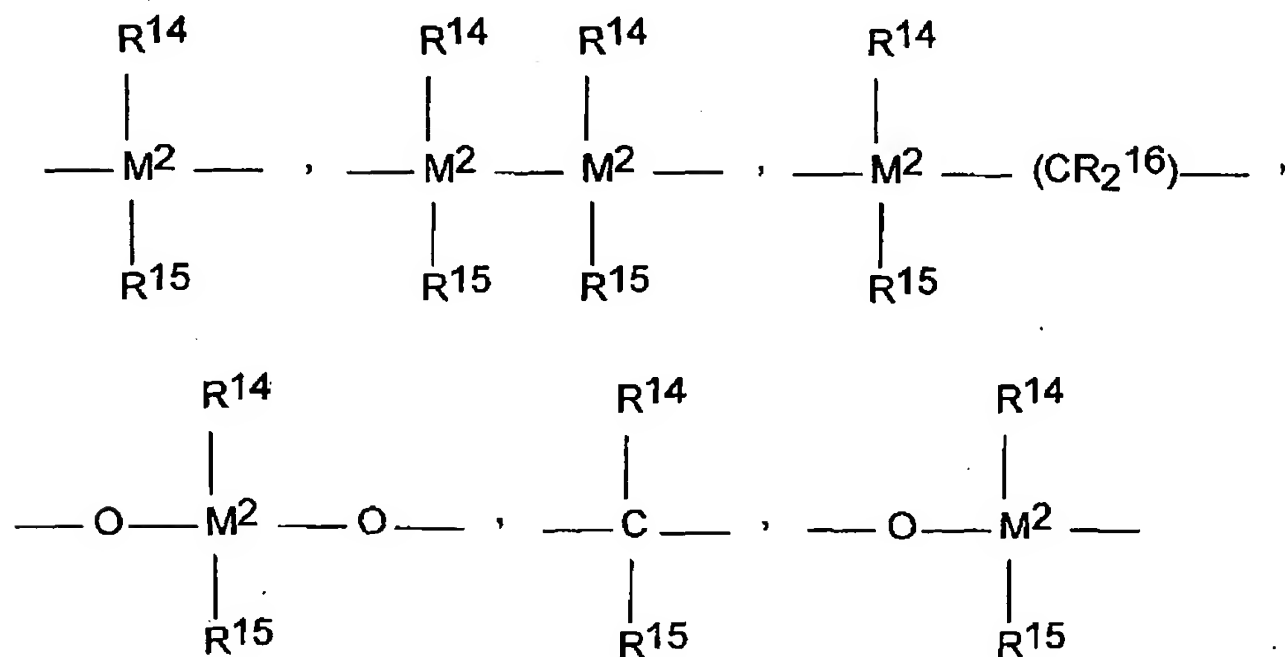
R^1 and R^2 are identical or different, and are one of a hydrogen atom, a C_1 - C_{10} alkyl group, a C_1 - C_{10} alkoxy group, a C_6 - C_{10} aryl group, [a C_6 - C_{10} aryloxy group,] a C_2 - C_{40} alkenyl group, a C_7 - C_{40} arylalkyl group, a C_7 - C_{40} alkylaryl group, a C_8 - C_{40} arylalkenyl group, an OH group or a halogen atom, or a conjugated diene which is optionally substituted with one or more hydrocarbyl, tri(hydrocarbyl)silyl groups or tri(hydrocarbyl)silylhydrocarbyl groups, said diene having up to 30 atoms not counting hydrogen;

R^3 are identical or different and are each a hydrogen atom, a halogen atom, a C_1 - C_{10} alkyl group which may be halogenated, a C_6 - C_{10} aryl group which may be halogenated, a C_2 -

C₁₀ alkenyl group, a C₇-C₄₀ arylalkyl group, a C₇-C₄₀ alkylaryl group, a C₈-C₄₀ arylalkenyl group, a -NR'₂, -SR', -OR', -OSiR'₃ or -PR'₂ radical, wherein R' is one of a halogen atom, a C₁-C₁₀ alkyl group, or a C₆-C₁₀ aryl group;

R⁴ to R⁷ are identical or different and are hydrogen, as defined for R³ or two or more adjacent radicals R⁵ to R⁷ together with the atoms connecting them form one or more rings;

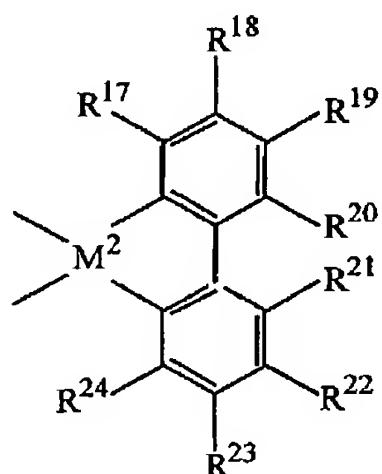
R¹³ is



-B(R¹⁴)-, -Al(R¹⁴)-, -Ge-, -Sn-, -O-, -S-, -SO-, -SO₂-, -N(R¹⁴)-, -CO-, -P(R¹⁴)-, or -P(O)(R¹⁴)-, or an amidoborane radical;

wherein: R¹⁴, R¹⁵ and R¹⁶ are identical or different and are a hydrogen atom, a halogen atom, a C₁-C₂₀ alkyl group, a C₁-C₂₀ fluoroalkyl or silaalkyl group, a C₆-C₃₀ aryl group, a C₆-C₃₀ fluoroaryl group, a C₁-C₂₀ alkoxy group, a C₂-C₂₀ alkenyl group, a C₇-C₄₀ arylalkyl group, a C₈-C₄₀ arylalkenyl group, a C₇-C₄₀ alkylaryl group, or R¹⁴ and R¹⁵, together with the atoms binding them, form a cyclic ring;

or R¹³ is represented by the formula:



wherein: R^{17} to R^{24} are one of a hydrogen atom, a C_1 - C_{10} alkyl group, a C_1 - C_{10} alkoxy group, a C_6 - C_{10} aryl group, a C_6 - C_{10} aryloxy group, a C_2 - C_{40} alkenyl group, a C_7 - C_{40} arylalkyl group, a C_7 - C_{40} alkylaryl group, a C_8 - C_{40} arylalkenyl group, an OH group, or a halogen atom, or two or more adjacent radicals R^{17} to R^{24} , including R^{20} and R^{21} , together with the atoms connecting them form one or more rings;

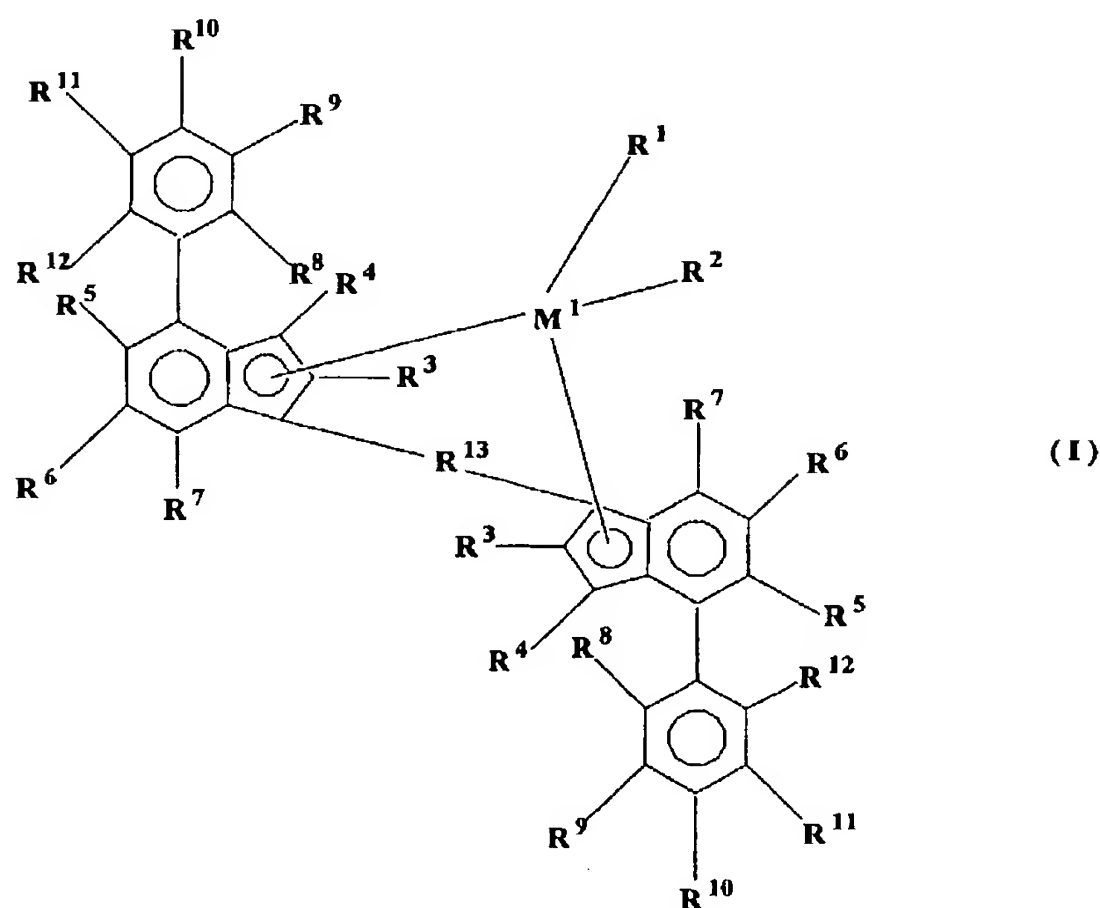
M^2 is one or more carbons, silicon, germanium or tin;

R^8 , R^{10} and R^{12} are identical or different and have the meanings stated for R^4 to R^7 ; and

R^9 and R^{11} are identical or different and are each primary, secondary or tertiary butyl groups.

2. (Previously Presented) The compound of claim 1 wherein R^3 are identical C_1 - C_4 alkyl groups.

3. (Previously Presented) The compound of claim 1 wherein R^3 are identical C_3 alkyl groups.
4. (Previously Presented) The compound of claim 1 wherein R^4 to R^7 are hydrogen atoms.
5. (Previously Presented) The compound of claim 1 wherein R^4 to R^7 and R^{14} to R^{16} are hydrogen atoms.
6. (Previously Presented) The compound of claim 1 wherein R^9 and R^{11} are both tertiary butyl groups.
7. (Previously Presented) The compound of claim 1 wherein R^4 to R^7 and R^{14} to R^{16} are hydrogen atoms and R^9 and R^{11} are both tertiary butyl groups.
12. (Amended) A compound represented by the formula:



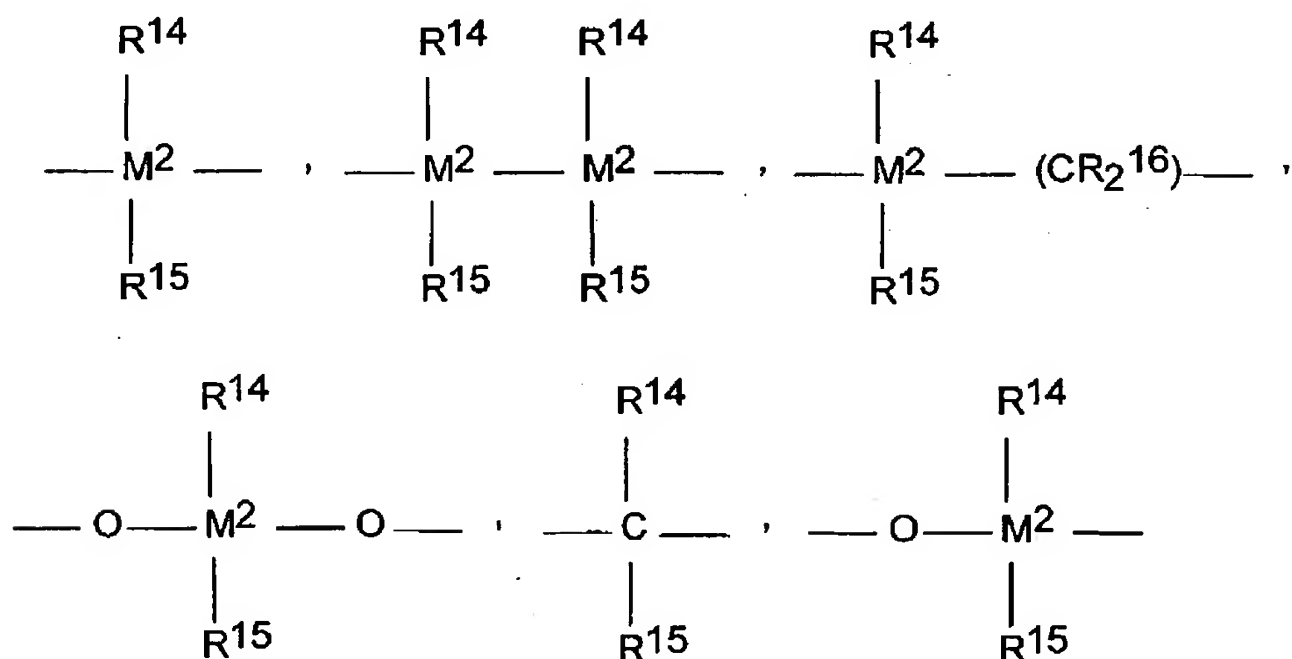
wherein: M^1 is selected from the group consisting of titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum and tungsten;

R^1 and R^2 are identical or different, and are one of a hydrogen atom, a C_1 - C_{10} alkyl group, a C_1 - C_{10} alkoxy group, a C_6 - C_{10} aryl group, [a C_6 - C_{10} aryloxy group,] a C_2 - C_{40} alkenyl group, a C_7 - C_{40} arylalkyl group, a C_7 - C_{40} alkylaryl group, a C_8 - C_{40} arylalkenyl group, an OH group [or a halogen atom], or a conjugated diene which is optionally substituted with one or more hydrocarbyl, tri(hydrocarbyl)silyl groups or tri(hydrocarbyl)silylhydrocarbyl groups, said diene having up to 30 atoms not counting hydrogen;

R^3 are identical and are each a C_1 - C_{10} alkyl group;

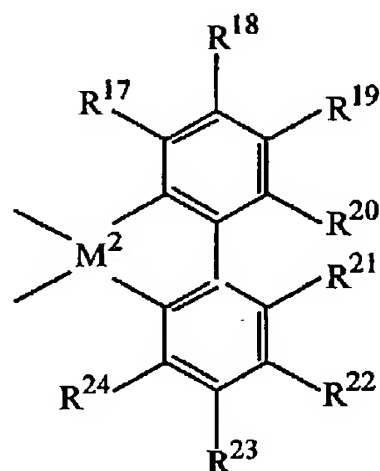
R^4 to R^7 are identical or different and are hydrogen, as defined for R^3 or two or more adjacent radicals R^5 to R^7 together with the atoms connecting them form one or more rings;

R^{13} is



- $B(R^{14})$ -, - $Al(R^{14})$ -, -Ge-, -Sn-, -O-, -S-, -SO-, - SO_2 -, - $N(R^{14})$ -, -CO-, - $P(R^{14})$ -, or - $P(O)(R^{14})$ -, or an amidoborane radical;

wherein: R^{14} , R^{15} and R^{16} are identical or different and are a hydrogen atom, a halogen atom, a C_1 - C_{20} alkyl group, a C_1 - C_{20} fluoroalkyl or silaalkyl group, a C_6 - C_{30} aryl group, a C_6 - C_{30} fluoroaryl group, a C_1 - C_{20} alkoxy group, a C_2 - C_{20} alkenyl group, a C_7 - C_{40} arylalkyl group, a C_8 - C_{40} arylalkenyl group, a C_7 - C_{40} alkylaryl group, or R^{14} and R^{15} , together with the atoms binding them, form a cyclic ring;
or R^{13} is represented by the formula:



wherein: R^{17} to R^{24} are one of a hydrogen atom, a C_1 - C_{10} alkyl group, a C_1 - C_{10} alkoxy group, a C_6 - C_{10} aryl group, [a C_6 - C_{10} aryloxy group,] a C_2 - C_{40} alkenyl group, a C_7 - C_{40} arylalkyl group, a C_7 - C_{40} alkylaryl group, a C_8 - C_{40} arylalkenyl group, an OH group or a halogen atom, or two or more adjacent radicals R^{17} to R^{24} , including R^{20} and R^{21} , together with the atoms connecting them form one or more rings;

M^2 is one or more carbons, silicon, germanium or tin;

R^8 , R^{10} and R^{12} are identical or different and have the meanings stated for R^4 to R^7 ;
and

R^9 and R^{11} are identical or different and are each primary, secondary or tertiary butyl groups.

13. (Previously Presented) The compound of claim 12 wherein R^4 to R^7 are hydrogen atoms.